

Army Modeling and Simulation Past, Present and Future



**Executive Forum
for**

Modeling and Simulation

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Training Simulation: Past to Present

SCOPES/
REALTRAIN
1971



MILES
1976 to Present




National
Training
Center



1982 to Present

SMART Definition



SMART is a process in which we capitalize on Modeling and Simulation (M&S) technology to address the issue of system development and life-cycle costs through the combined efforts of the requirements, training and acquisition communities.

***Be a world leader in Modeling
and Simulation to
continuously improve Army
effectiveness through a
disciplined collaborative
environment in partnership
with industry, government,
and academia.***

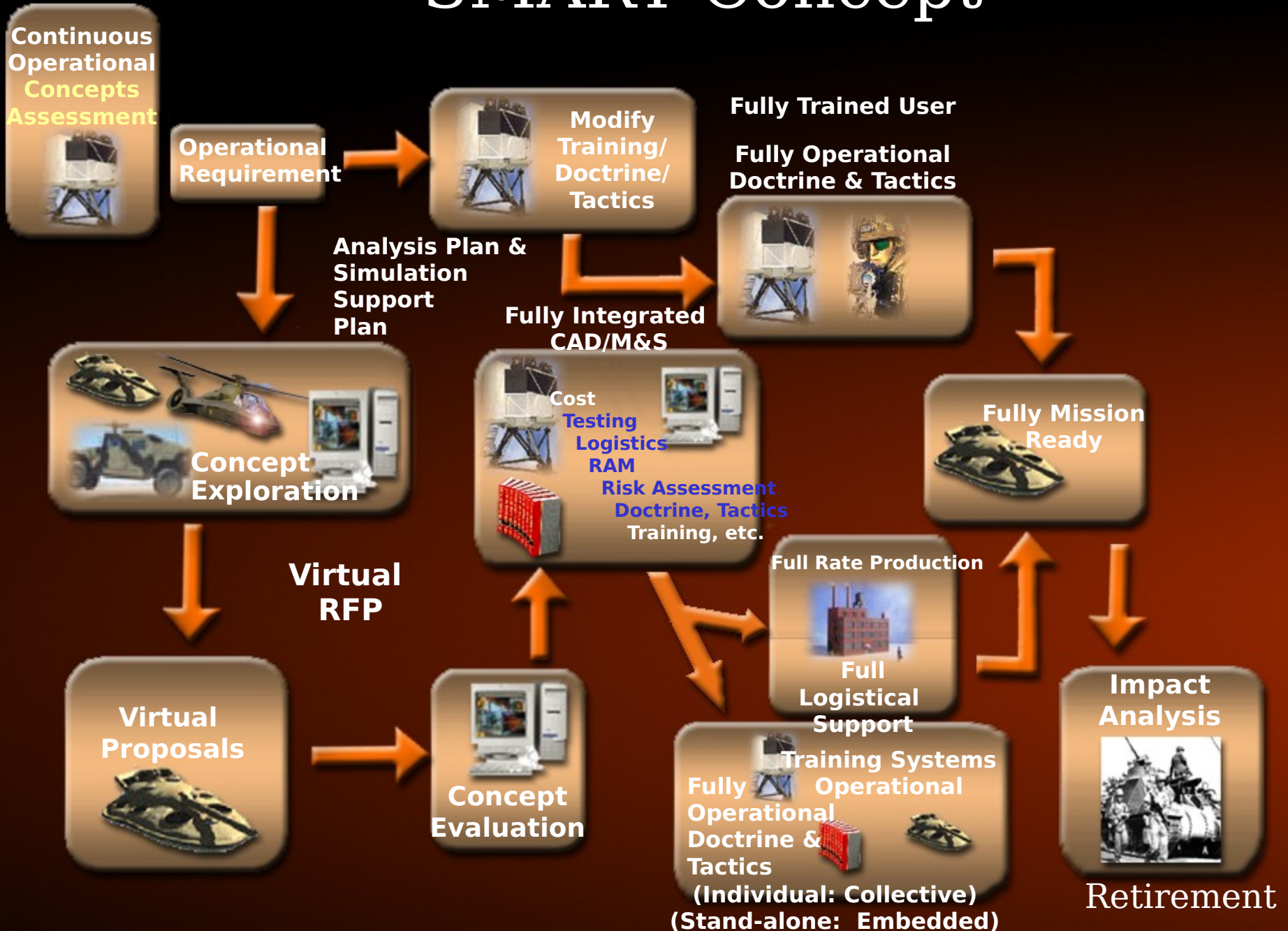
5 November 1999

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Lieutenant General, GS
Deputy Chief of Staff
for Operations and Plans

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Military Deputy to the
Assistant Secretary of the
Army (Acquisition, Logistics
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Walter W. Hollis
Deputy Under
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SMART Concept



Flagship Programs



- **Apache** poised to re-assess basic load, capitalize on product improvements to re-engineer logistic support



- **CCTT** can be Employed to Explore Doctrine and TTP for Future Systems to Influence Final Design

- **Crusader** program operates within an Integrated Digital Environment that links the Program Management Office, Contractor, Research Center, assorted test ranges, and other activities

- **Future Scout Cavalry System** ideally poised to benefit from M&S and Systems Engineering



Modeling and Simulation Are Essential to Field the Objective Force In This Decade

2008



- Design Faster
- Collaborate Easier
- Explore Alternative D

The Way Ahead

SMART is the enabler to allow the Army to complete the Transformation process within the established timelines. Coordination has been conducted to incorporate 45 of the 51 tasks in the **SMART Execution Plan** into the Transformation Campaign Plan.



AMC RDEC Federation



AMC-wide Distributed M&S Collaborative Environment

M&S Integration and Interoperation Across RDECs

Design

Evaluate

Collaborate

**RDEC M&S
Commodities
distributed over
multiple,
heterogeneous
platforms**

Internet

**MP-ERM
TACOM/ARDEC**

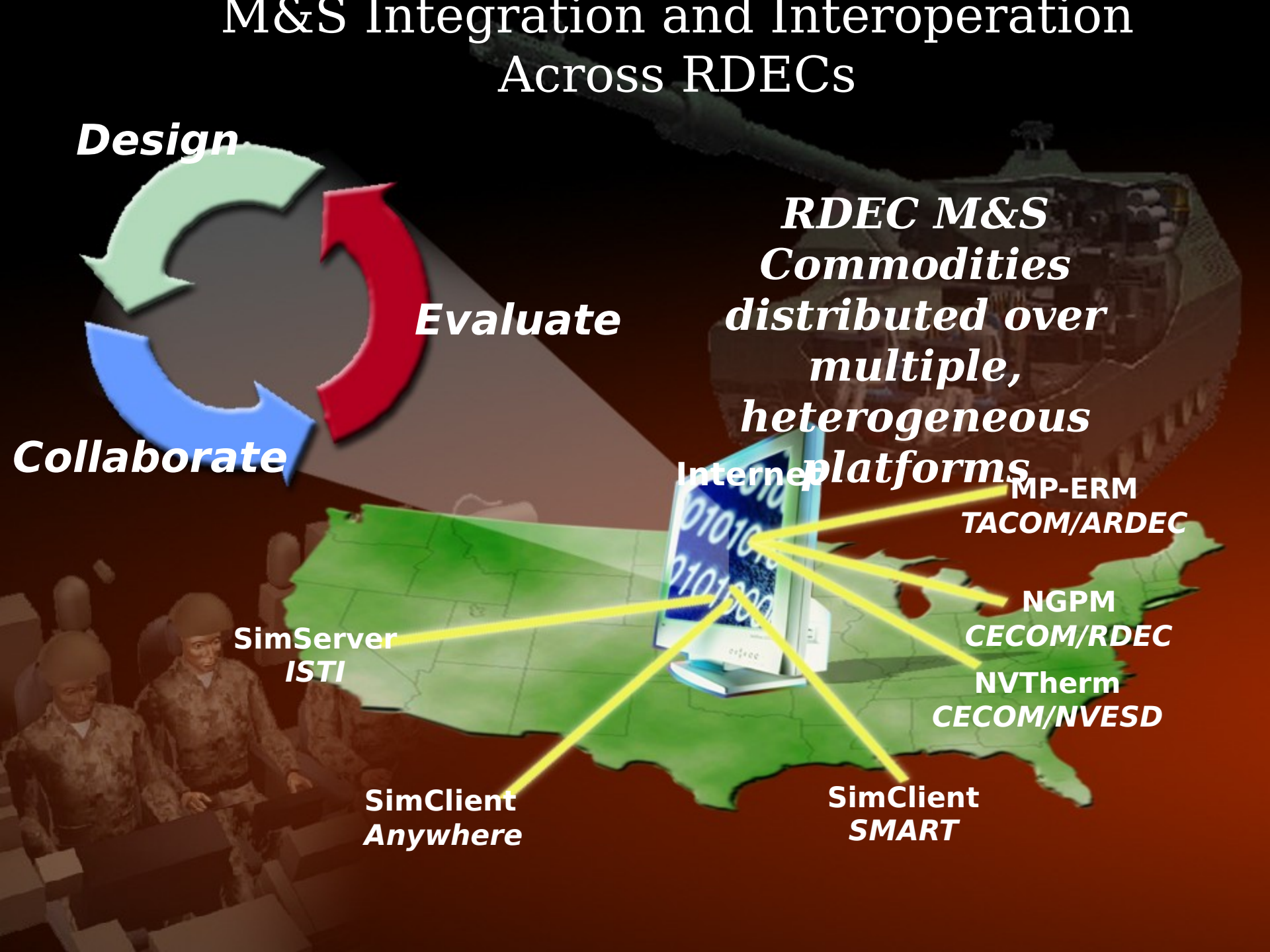
**NGPM
CECOM/RDEC**

**NVTherm
CECOM/NVESD**

**SimServer
ISTI**

**SimClient
Anywhere**

**SimClient
SMART**



SMART Collaboration With Entertainment Industry/Academia



- **Immersive Environments**
- **Urban Environment Simulation**
- **Stability and Support Operations Simulation**

Training Simulations: The Future

- System Embedded Training



- Use of Hollywood Concepts to Create Immersive Training Environments



*Facing the
Future...*

Together